

## AMENDMENT

### Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application:

1. (Currently Amended) A method for loading an antigen-presenting cell with one or more antigens, comprising:
  - a) preparing a mixture comprising antigen-presenting cells and ~~an antigen composition comprising a lysate having one or more antigens of a hyperproliferative cell, a microorganism-infected cell or a microorganism, wherein the number of antigen-presenting cells is greater than the number of cells represented in the lysate;~~ and
  - b) electroporating the mixture in a manner sufficient to load the one or more antigens into the antigen-presenting cells.
2. (Original) The method of claim 1, wherein the antigen-presenting cell is a dendritic cell.
3. (Original) The method of claim 1, wherein the microorganism is a virus, bacterium, fungus, or protozoan.
4. (Original) The method of claim 1, wherein the microorganism-infected cell is a cell infected with a virus, bacterium, fungus, or protozoan.
5. (Canceled)
6. (Currently Amended) The method of claim ~~[[5]]~~1, wherein the lysate is prepared using a ~~detergent or~~ a non-detergent treatment.
7. (Original) The method of claim 6, wherein the non-detergent treatment is selected from the group consisting of freeze-thaw methods, sonication methods, high pressure extrusion methods, solid shear methods, liquid shear methods, and hypotonic/hypertonic methods.

8. (Original) The method of claim 1, wherein the one or more antigens are tumor-associated antigens.
9. (Original) The method of claim 8, wherein the tumor-associated antigens are recombinant tumor-associated antigens.
10. (Original) The method of claim 8, wherein the tumor-associated antigens are tumor-restricted antigens.
11. (Currently Amended) The method of claim ~~[[5]]~~1, wherein the ~~lysate~~  
~~comprises~~hyperproliferative cell is a tumor cell-~~lysate~~.
12. (Currently Amended) The method of claim 11, wherein the tumor cell ~~lysate~~ is an autologous tumor cell-~~lysate~~.
13. (Currently Amended) The method of claim 11, wherein the tumor cell ~~lysate~~ is an allogeneic tumor cell-~~lysate~~.
14. (Currently Amended) The method of claim 11, wherein the tumor cell ~~lysate~~ comprises a cancer cell-~~lysate~~.
15. (Currently Amended) The method of claim 14, wherein the cancer cell-~~lysate~~ is ~~comprised of~~  
breast cancer cell[[s]], lung cancer cell[[s]], prostate cancer cell[[s]], ovarian cancer cell[[s]],  
brain cancer cell[[s]], liver cancer cell[[s]], cervical cancer cell[[s]], colon cancer cell[[s]],  
renal cancer cell[[s]], skin cancer cell[[s]], head & neck cancer cell[[s]], bone cancer cell[[s]],  
esophageal cancer cell[[s]], bladder cancer cell[[s]], uterine cancer cell[[s]], lymphatic cancer  
cell[[s]], stomach cancer cell[[s]], pancreatic cancer cell[[s]], testicular cancer cell[[s]], or  
leukemia cell[[s]].
16. (Withdrawn) A method of treating or preventing a disease in a subject, comprising:
  - a) loading an antigen-presenting cell with one or more antigens of a hyperproliferative cell, a microorganism, or a microorganism-infected cell using electroporation;
  - b) preparing a composition of said antigen-presenting cell; and

c) administering to a subject in need thereof with an effective amount of said composition.

17. (Withdrawn) The method of claim 16, further comprising culturing the antigen-presenting cell.
18. (Withdrawn) The method of claim 16, wherein the one or more antigens are substantially purified.
19. (Withdrawn) The method of claim 16, wherein the subject is a mammal.
20. (Withdrawn) The method of claim 16, wherein the subject is a human.
21. (Withdrawn) The method of claim 16, wherein the disease is a hyperproliferative disease.
22. (Withdrawn) The method of claim 21, wherein the hyperproliferative disease is a tumor.
23. (Withdrawn) The method of claim 21, wherein the tumor is a cancer.
24. (Withdrawn) The method of claim 23, wherein the cancer is breast cancer, lung cancer, prostate cancer, ovarian cancer, brain cancer, liver cancer, cervical cancer, colon cancer, renal cancer, skin cancer, head & neck cancer, bone cancer, esophageal cancer, bladder cancer, uterine cancer, lymphatic cancer, stomach cancer, pancreatic cancer, testicular cancer, or leukemia.
25. (Withdrawn) The method of claim 16, wherein the subject is undergoing secondary anti-hyperplastic therapy.
26. (Withdrawn) The method of claim 25, wherein the secondary anti-hyperplastic therapy is chemotherapy, radiotherapy, immunotherapy, phototherapy, cryotherapy, toxin therapy, hormonal therapy, or surgery.
27. (Withdrawn) The method of claim 16, wherein the composition is delivered systemically, intravascularly, intradermally, or subcutaneously.

28. (Withdrawn) The method of claim 16, wherein the composition is delivered locally to a tumor mass.
29. (Withdrawn) The method of claim 16, wherein the antigen-presenting cells comprise dendritic cells.
30. (Withdrawn) The method of claim 16, further comprising culturing the antigen-presenting cells following the loading of the antigen-presenting cells.
31. (Withdrawn) The method of claim 16, further comprising measuring the immune response of the antigen-presenting cells following loading of the antigen-presenting cells.
32. (Withdrawn) The method of claim 31, wherein measurement of the immune response is performed *in vitro* by ELISPOT, ELISA, PCR, or tumor cell killing.
33. (Withdrawn) The method of claim 32, wherein measurement of the immune response is performed *in vivo* by measurement of tumor size.
- 34.-37. (Canceled)
38. (New) The method of claim 3, wherein the microorganism is a virus.
39. (New) The method of claim 3, wherein the microorganism is a bacterium.
40. (New) The method of claim 3, wherein the microorganism is a fungus.
41. (New) The method of claim 3, wherein the microorganism is a protozoan.
42. (New) The method of claim 4, wherein the microorganism infected cell is a cell infected with a virus.
43. (New) The method of claim 4, wherein the microorganism infected cell is a cell infected with a bacterium.
44. (New) The method of claim 4, wherein the microorganism infected cell is a cell infected with a fungus.

45. (New) The method of claim 4, wherein the microorganism infected cell is a cell infected with a protozoan.
46. (New) The method of claim 1, wherein the lysate is prepared using a detergent.
47. (New) The method of claim 15, wherein the cancer cell is a renal cancer cell.
48. (New) The method of claim 15, wherein the cancer cell is a skin cancer cell.
49. (New) The method of claim 15, wherein the cancer cell is a lung cancer cell.
50. (New) The method of claim 15, wherein the cancer cell is a breast cancer cell.
51. (New) The method of claim 15, wherein the cancer cell is a leukemia cell.
52. (New) The method of claim 1, wherein electroporating the mixture comprises static electroporation.
53. (New) The method of claim 1, wherein electroporating the mixture comprises flow electroporation.